

FIG. 1

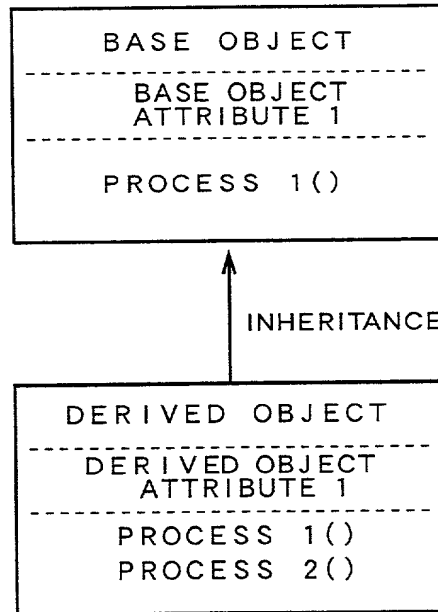
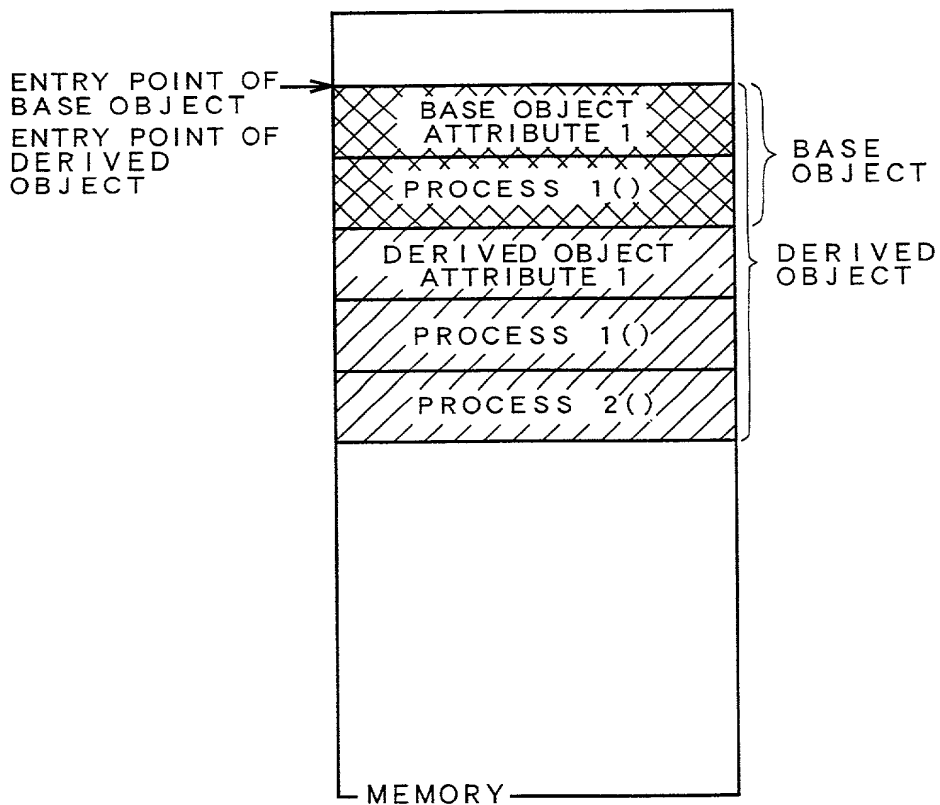


FIG. 2



The diagram illustrates the Observer design pattern with the following components and relationships:

- Observer:** Contains the `UPDATE PROCESS()` method.
- Model:** Contains methods for core data and observer interaction:
  - `DATA OF CORE`
  - `SETTING ENTRY POINT OF OBSERVER`
  - `ATTACH PROCESS(ENTRY POINT OF OBSERVER)`
  - `DETACH PROCESS(ENTRY POINT OF OBSERVER)`
  - `INFORMING PROCESS()`
  - `OBTAIN DATA PROCESS()`
  - `SERVICE EXECUTION PROCESS()`
- View:** Contains methods for model interaction and initialization:
  - `ENTRY POINT OF MODEL`
  - `ENTRY POINT OF CONTROLLER`
  - `INITIALIZING PROCESS (ENTRY POINT OF MODEL)`
  - `CONTROLLER GENERATING PROCESS()`
  - `DISPLAY PROCESS()`
  - `UPDATE PROCESS()`
- Controller:** Contains methods for model and view interaction:
  - `ENTRY POINT OF MODEL`
  - `ENTRY POINT OF VIEW`
  - `INITIALIZING PROCESS (ENTRY POINT OF MODEL, ENTRY POINT OF VIEW)`
  - `EVENT HANDLING PROCESS()`
  - `UPDATE PROCESS()`

**Relationships:**

- Observer to Model:** Labeled "OBJECT NAME" with a dashed arrow pointing to the Model box.
- Observer to View:** Labeled "ATTRIBUTE" with a dashed arrow pointing to the View box.
- Observer to Controller:** Labeled "PROCESS" with a dashed arrow pointing to the Controller box.
- Model to Observer:** Labeled "INHERITANCE" with a solid arrow pointing from the Model box to the Observer box.
- View to Observer:** Labeled "INHERITANCE" with a solid arrow pointing from the View box to the Observer box.
- Controller to Observer:** Labeled "INHERITANCE" with a solid arrow pointing from the Controller box to the Observer box.

FIG. 4

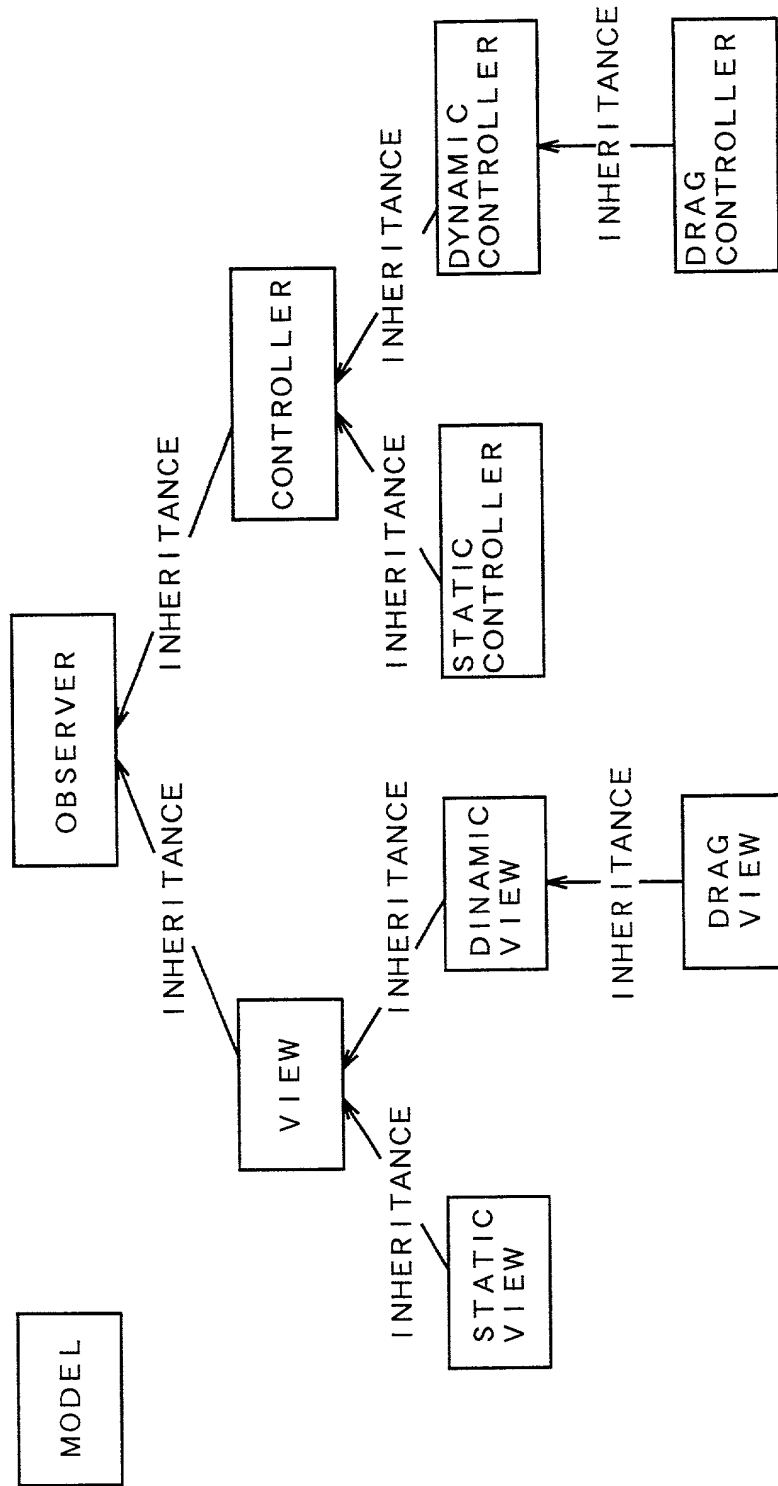


FIG. 5

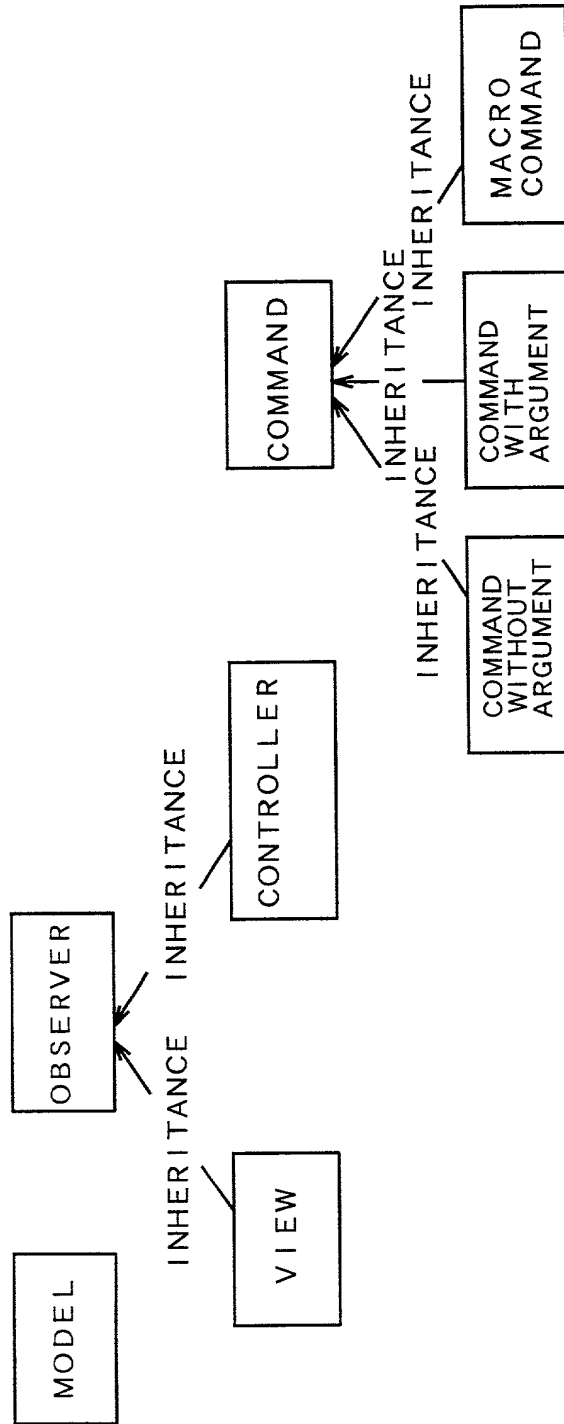
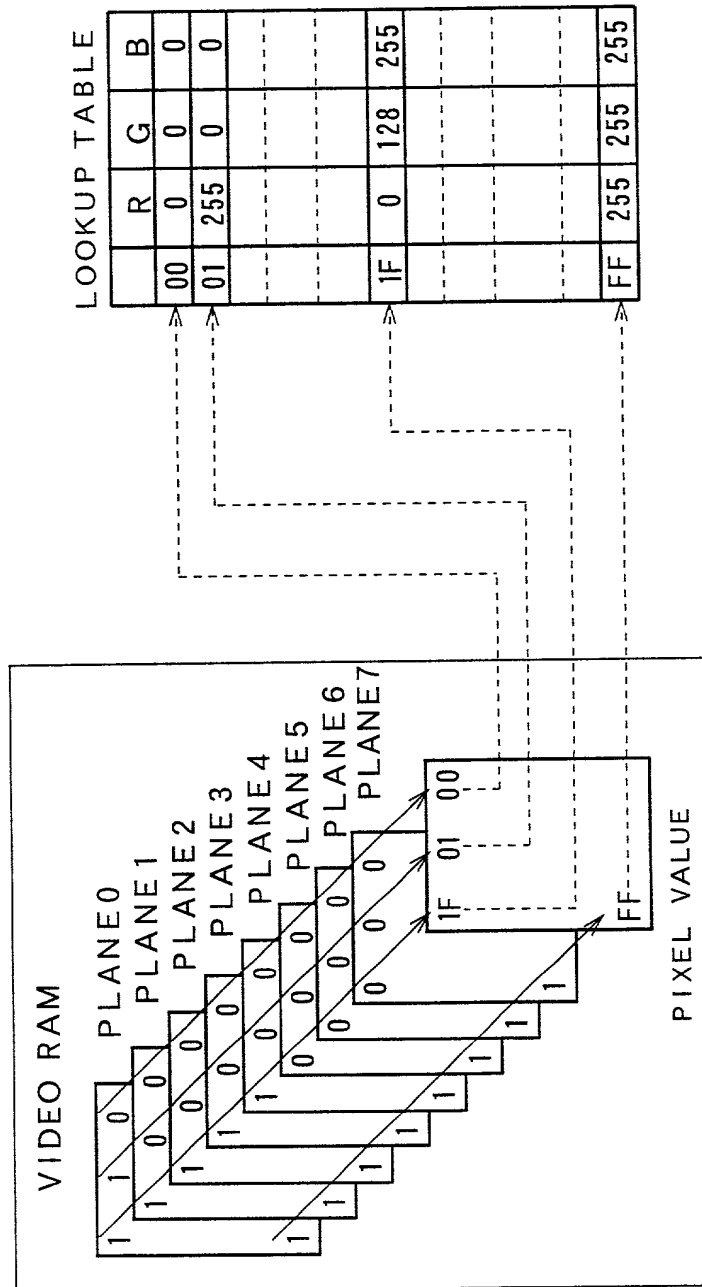




FIG. 7



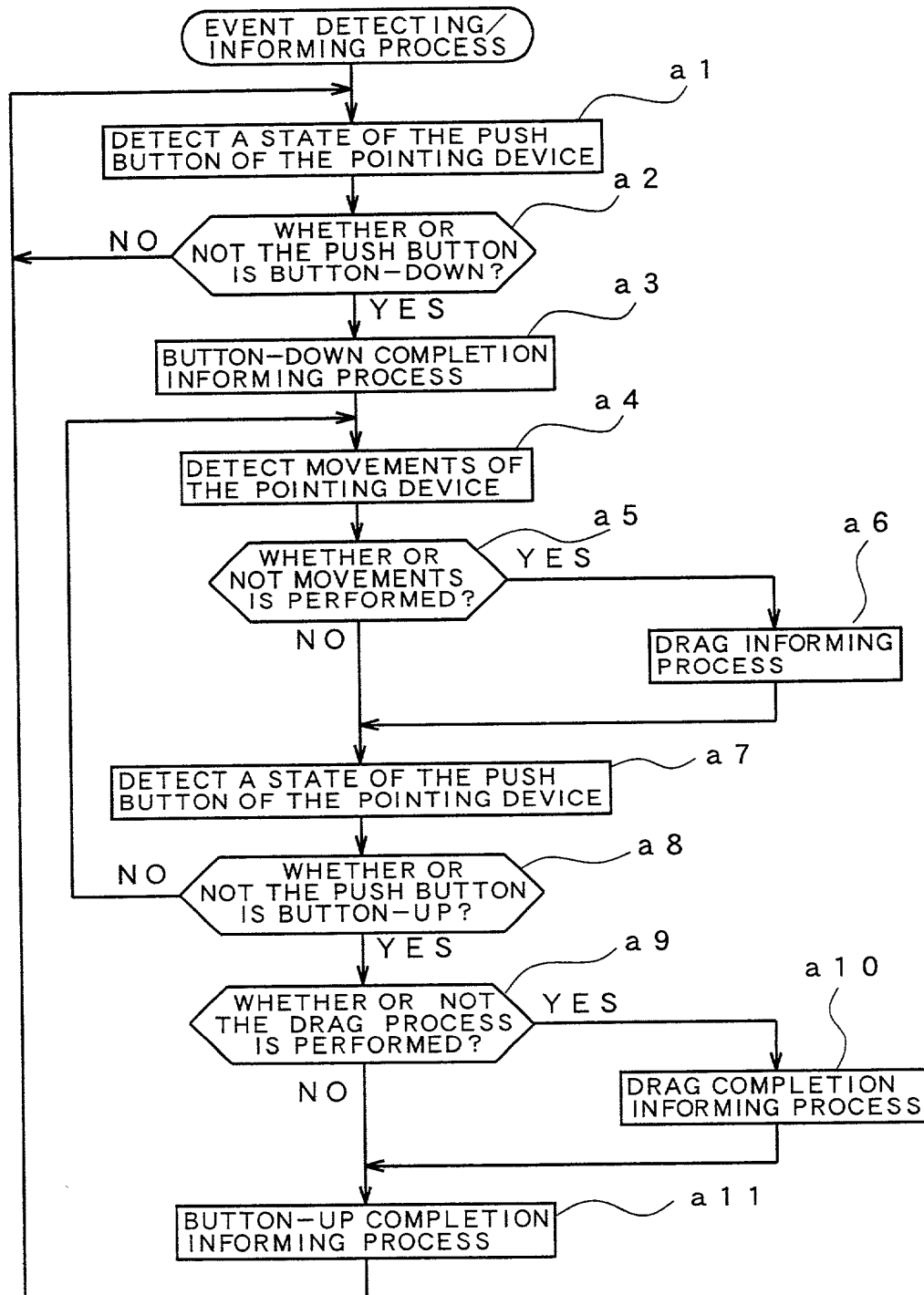


FIG. 9

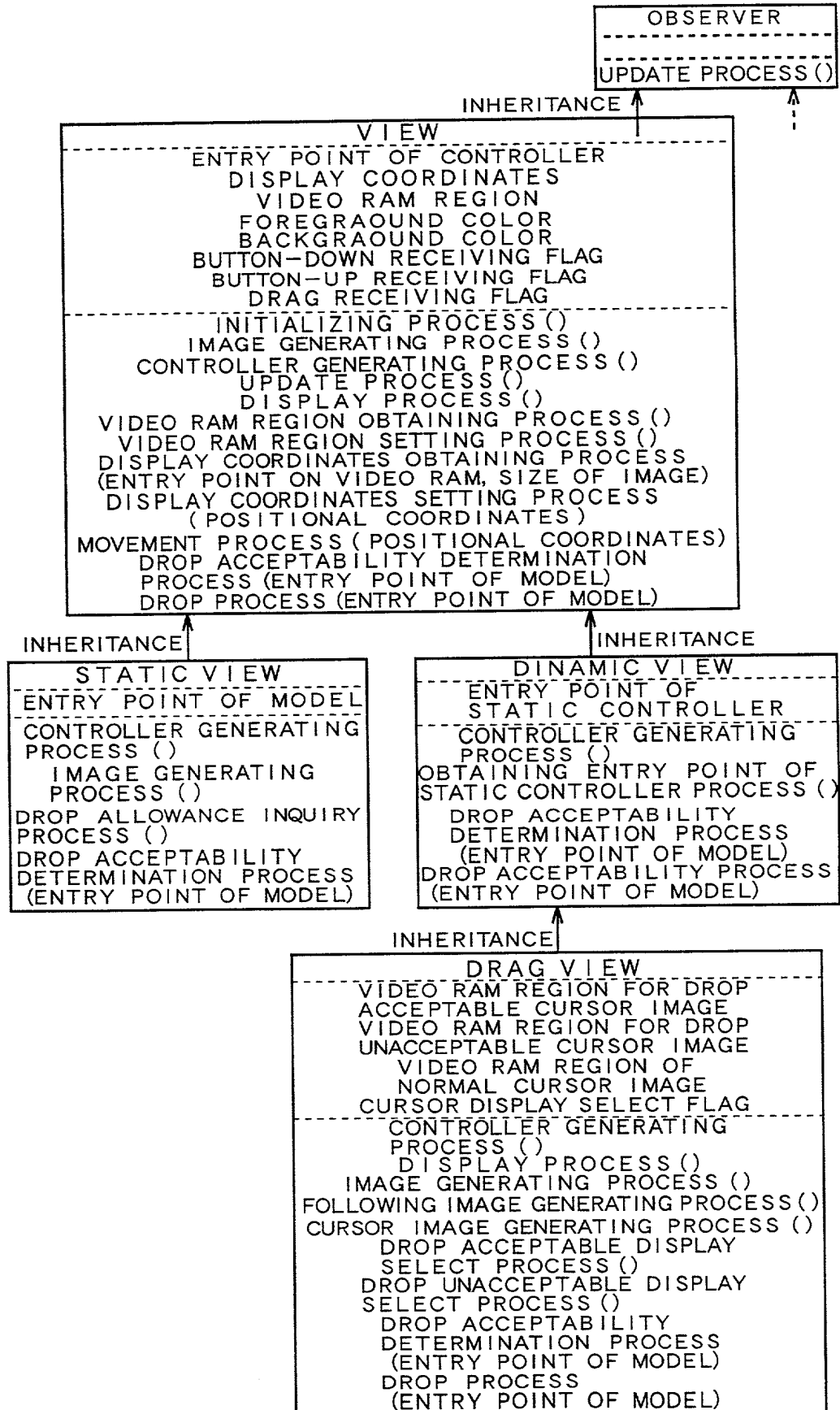




FIG. 10

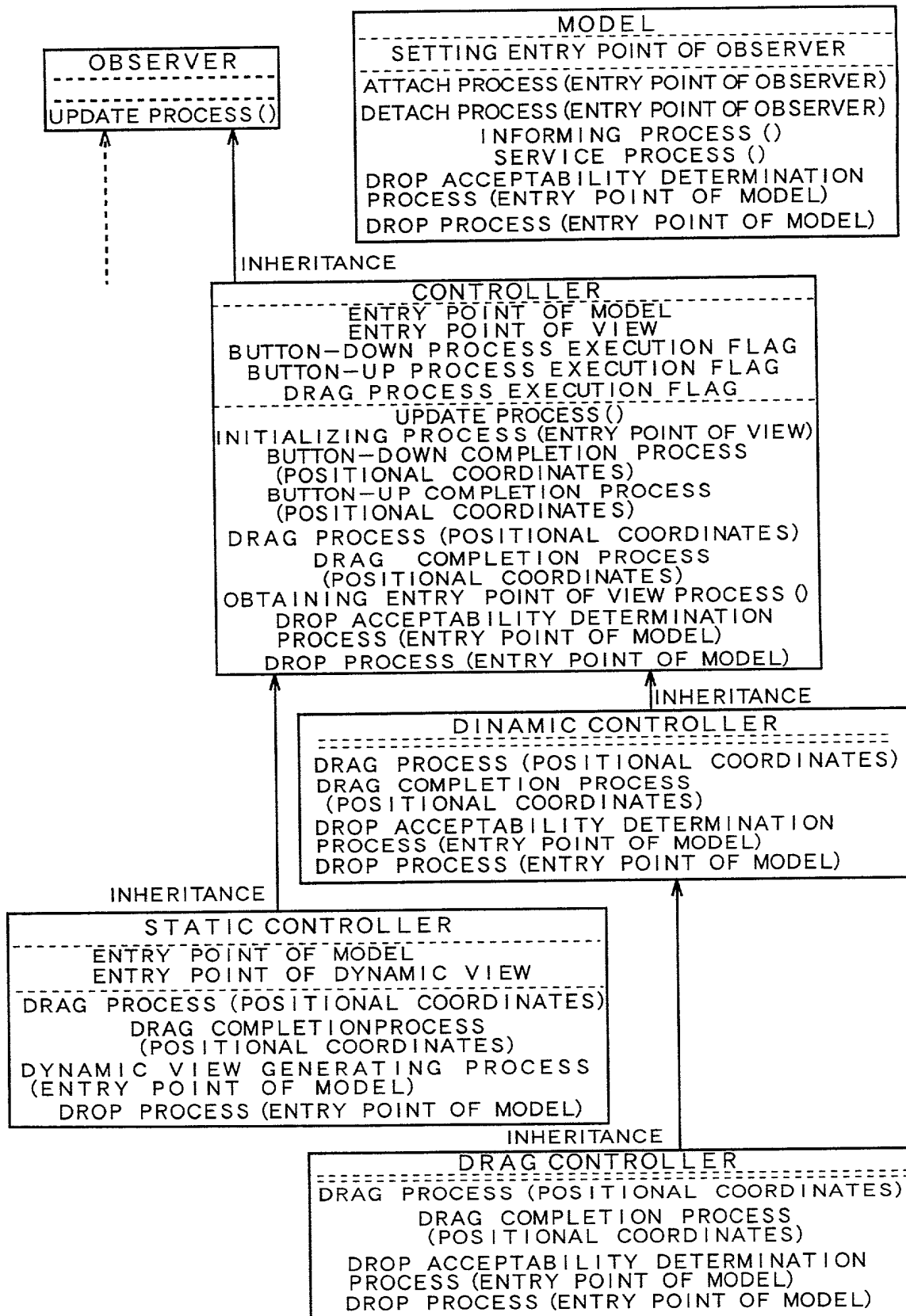
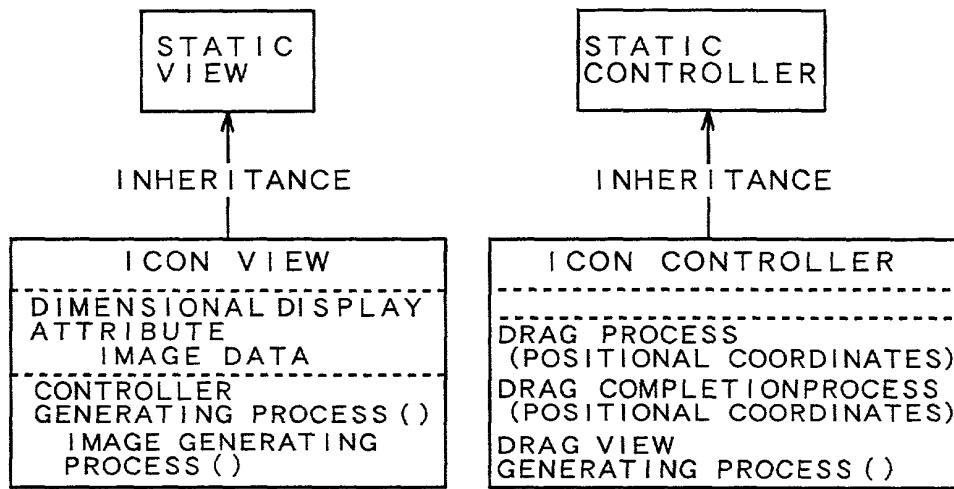


FIG. 11



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FIG. 12

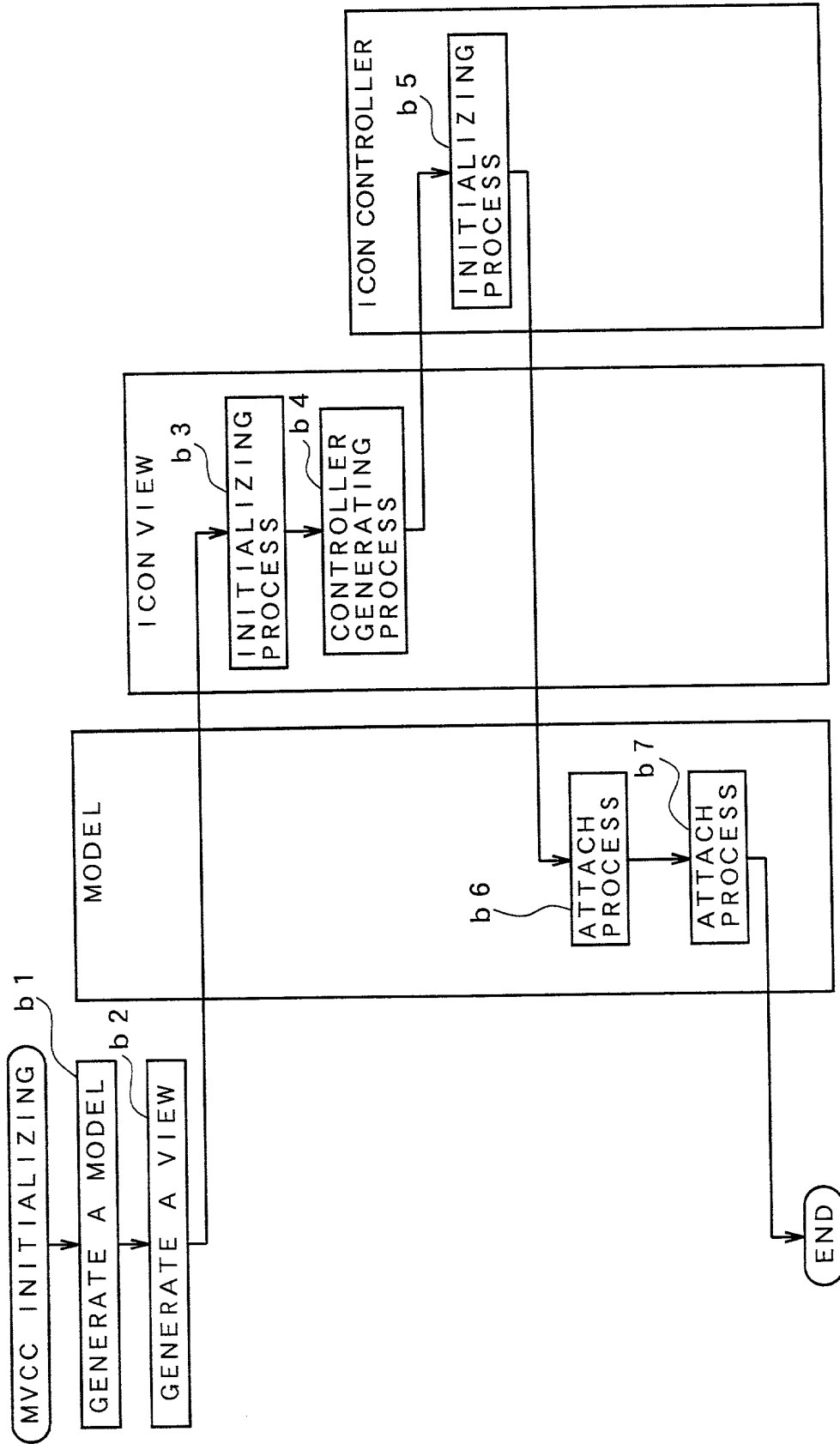


FIG. 13

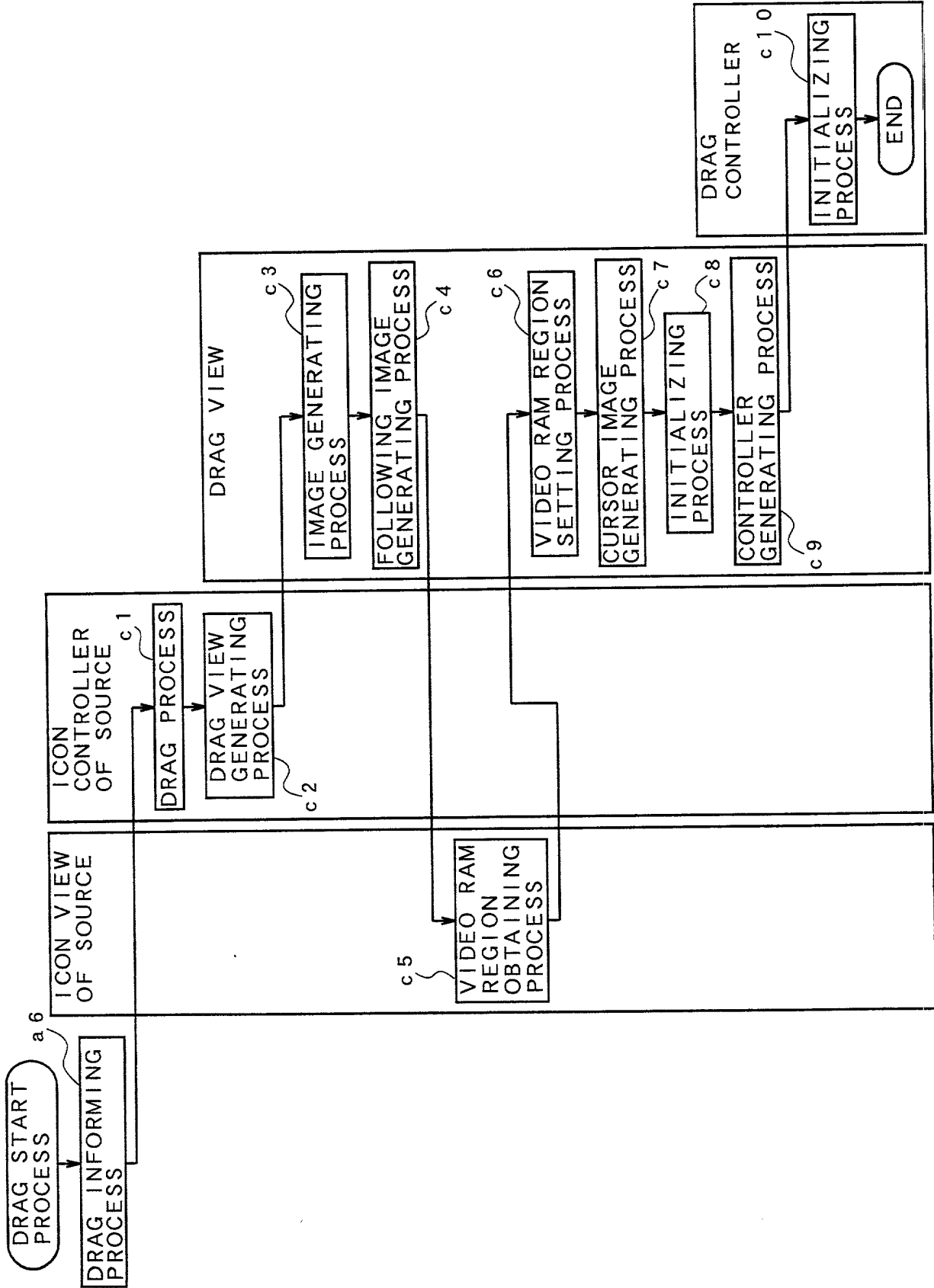
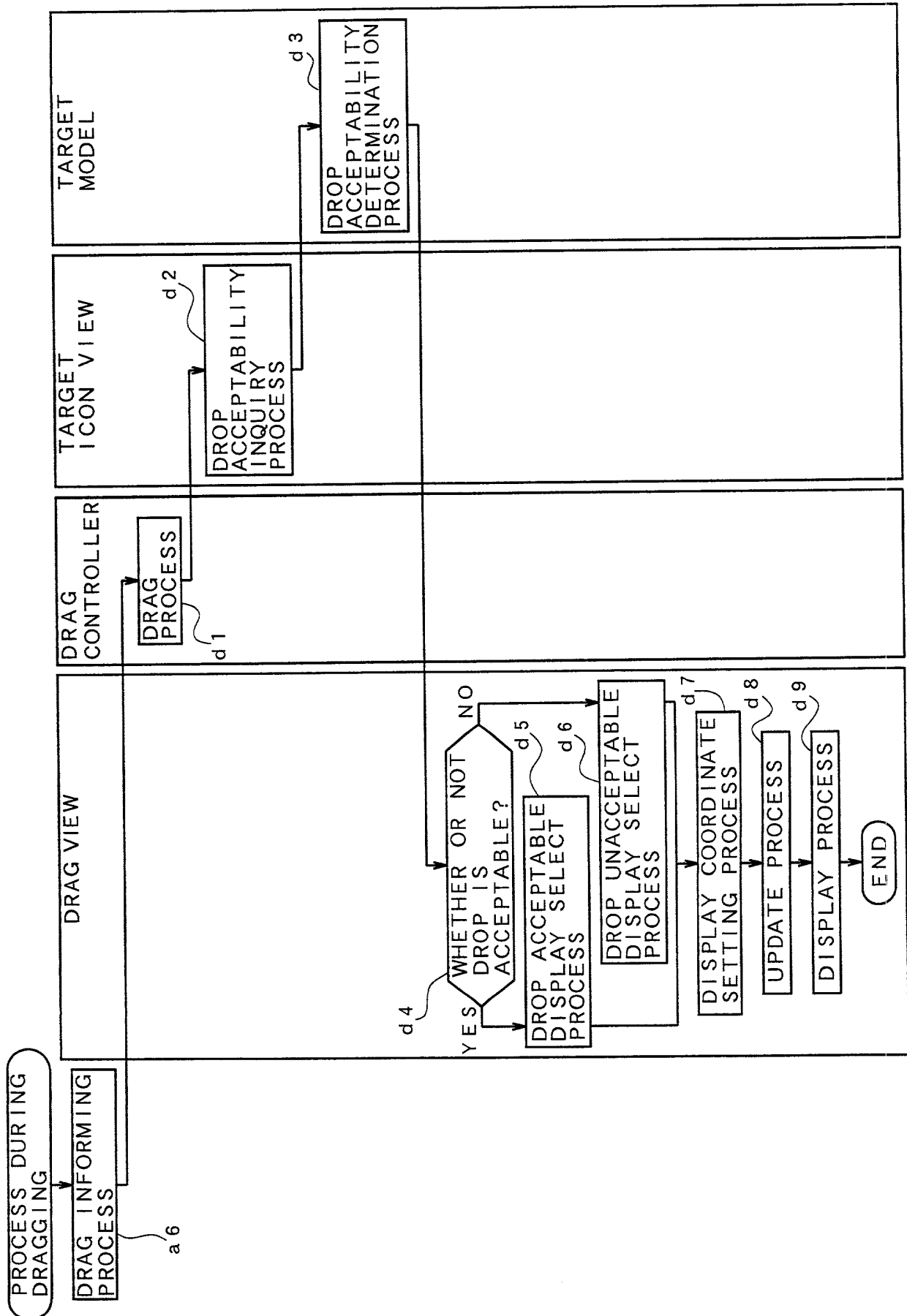
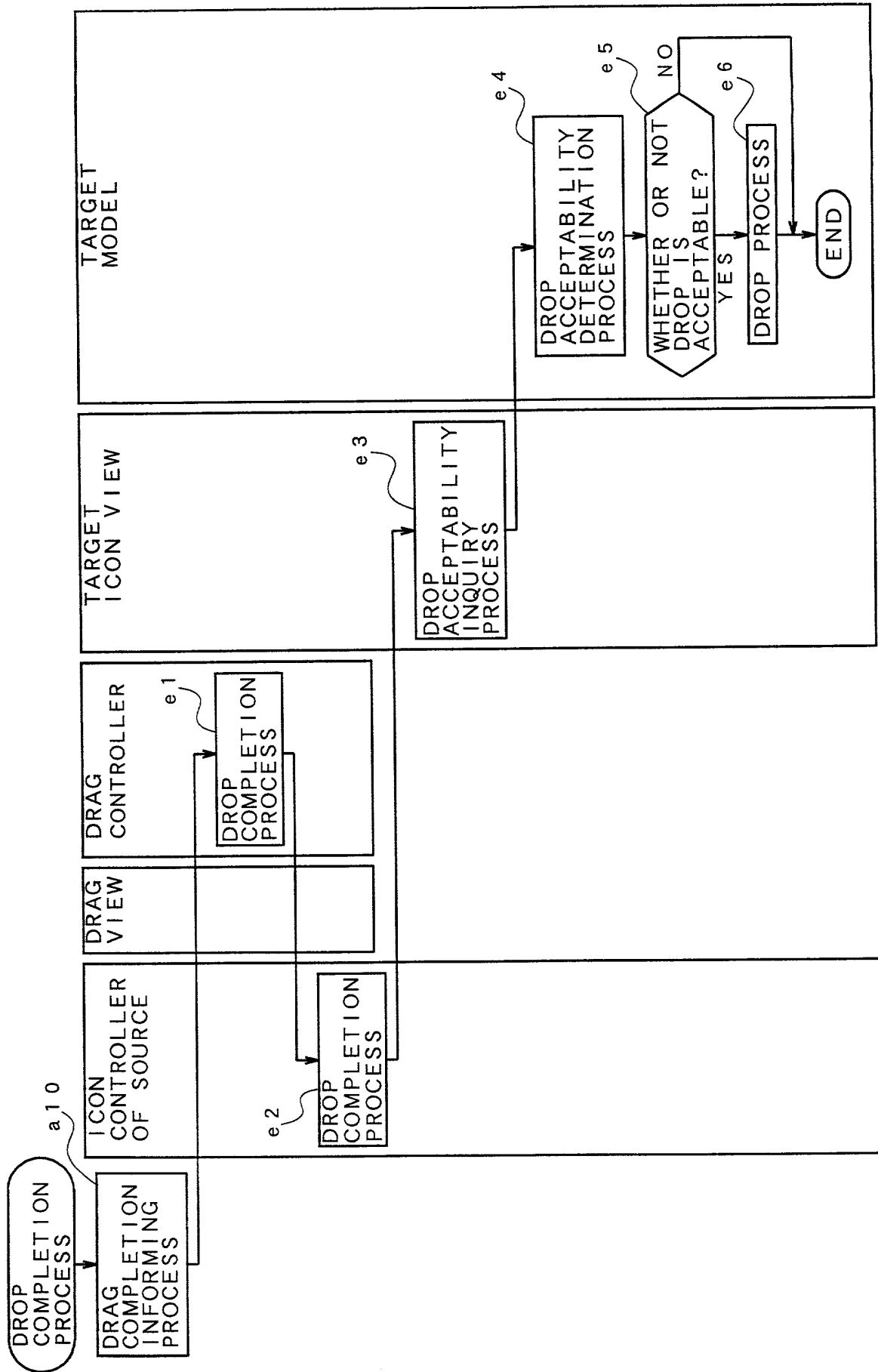


FIG. 14



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FIG. 15











**FIG. 19**

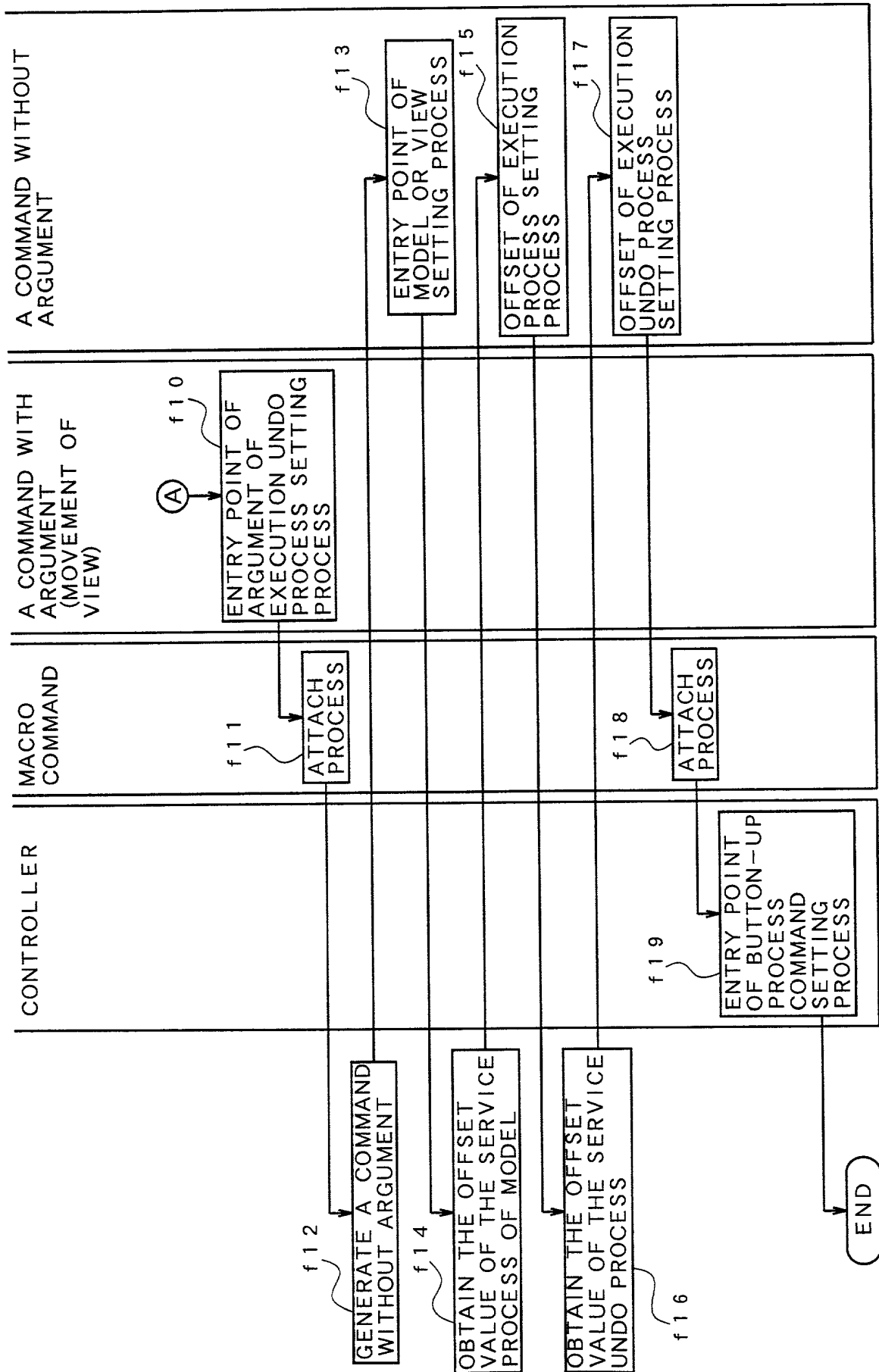
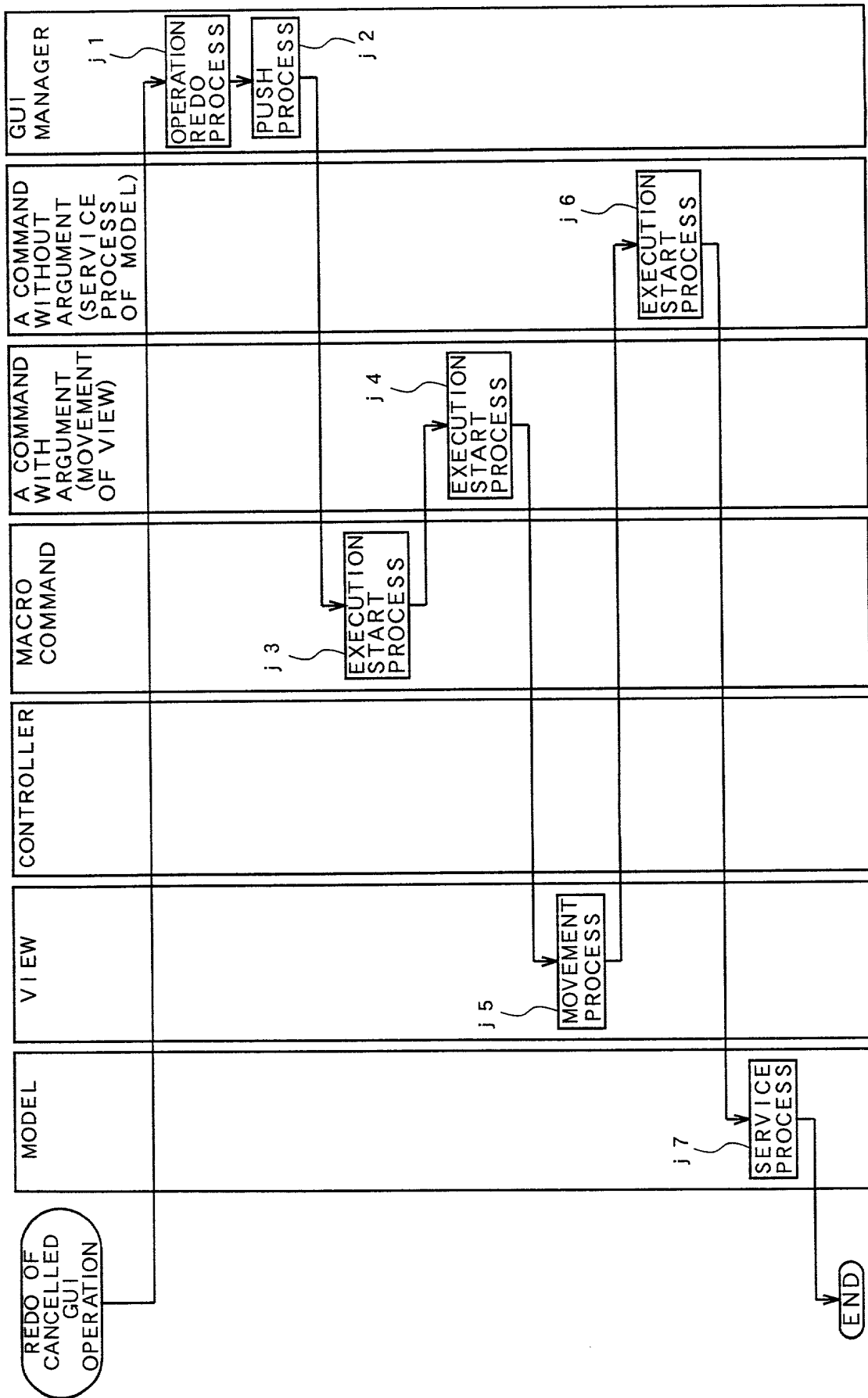




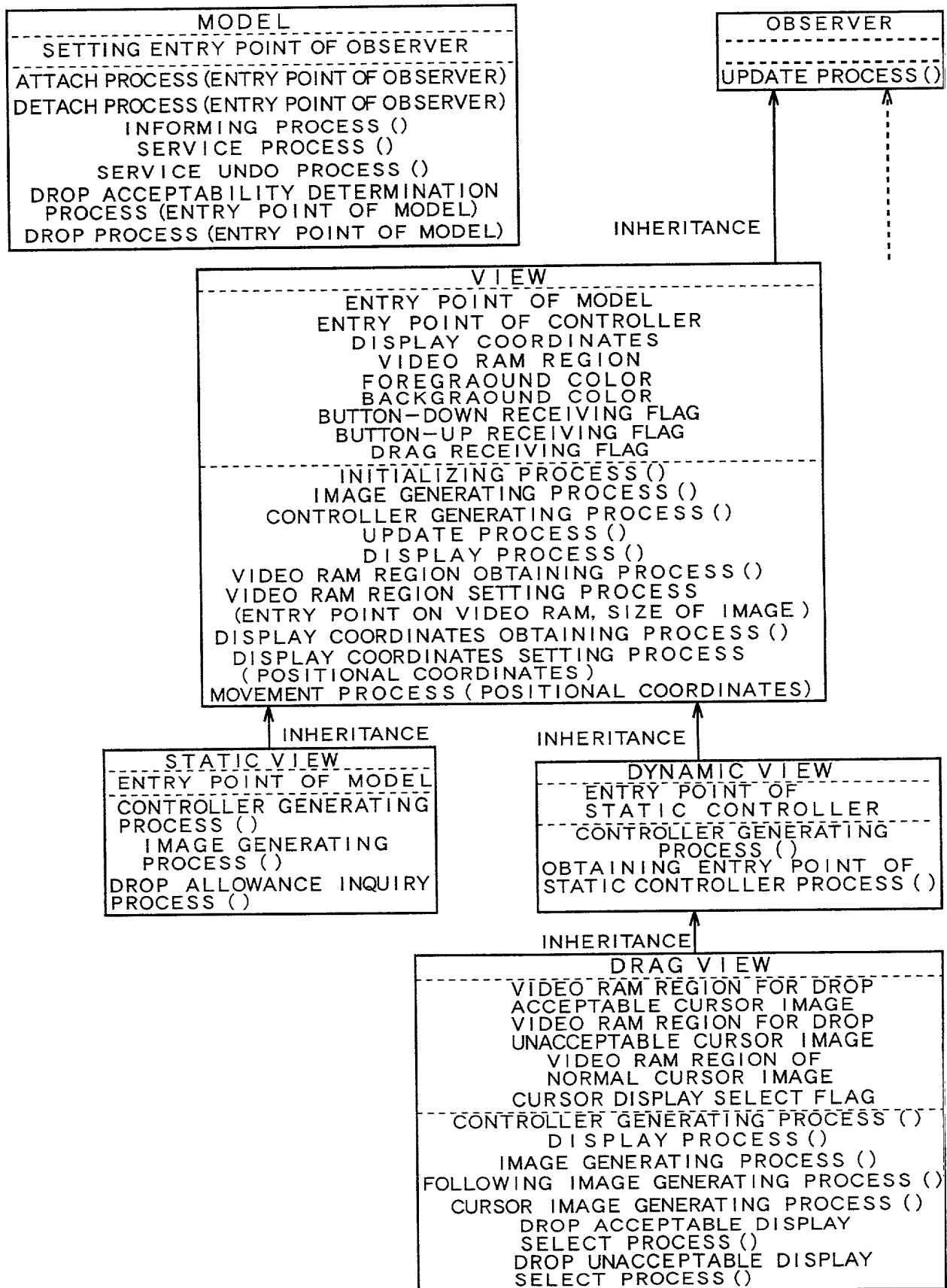


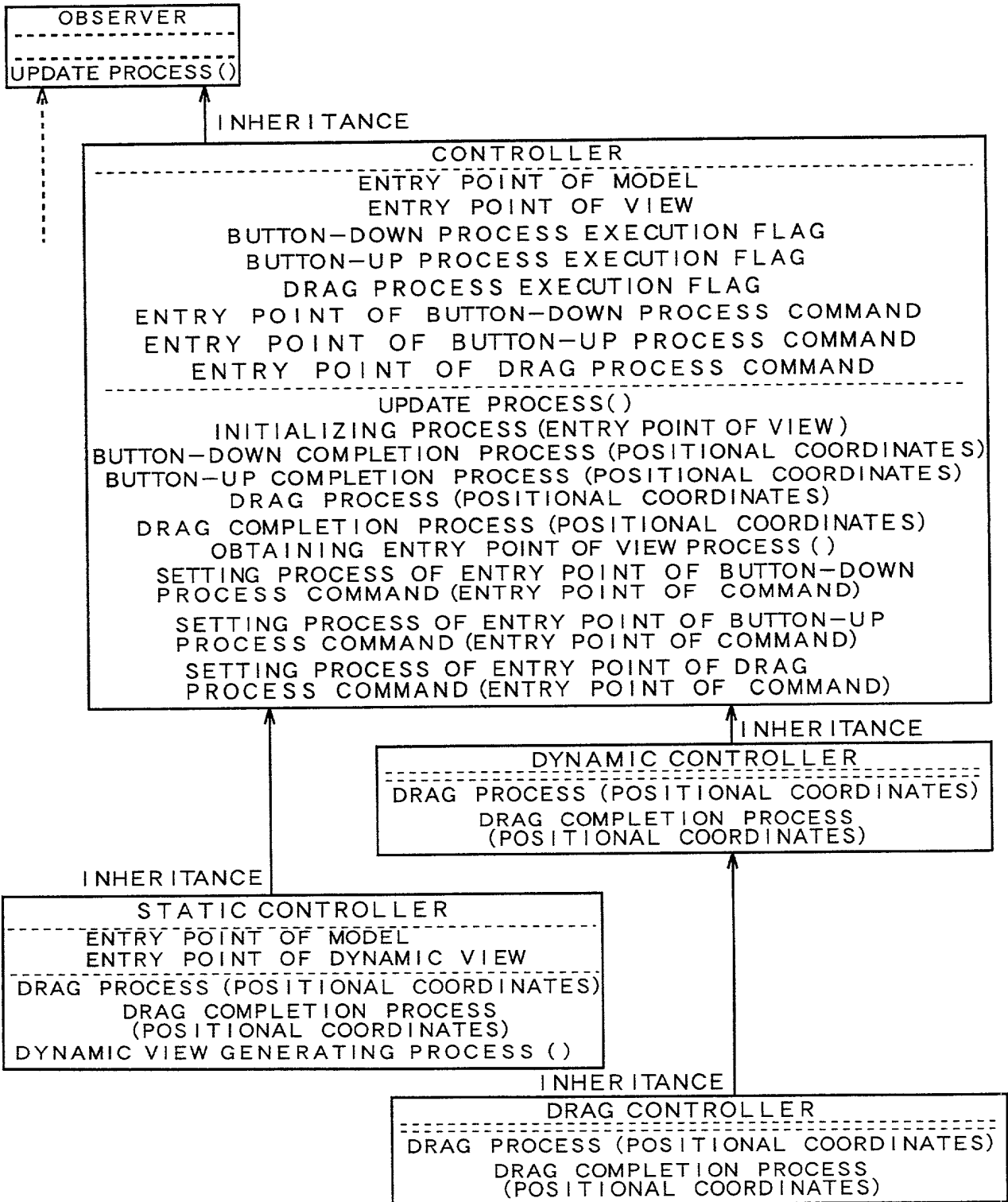
FIG. 22

FIG. 22

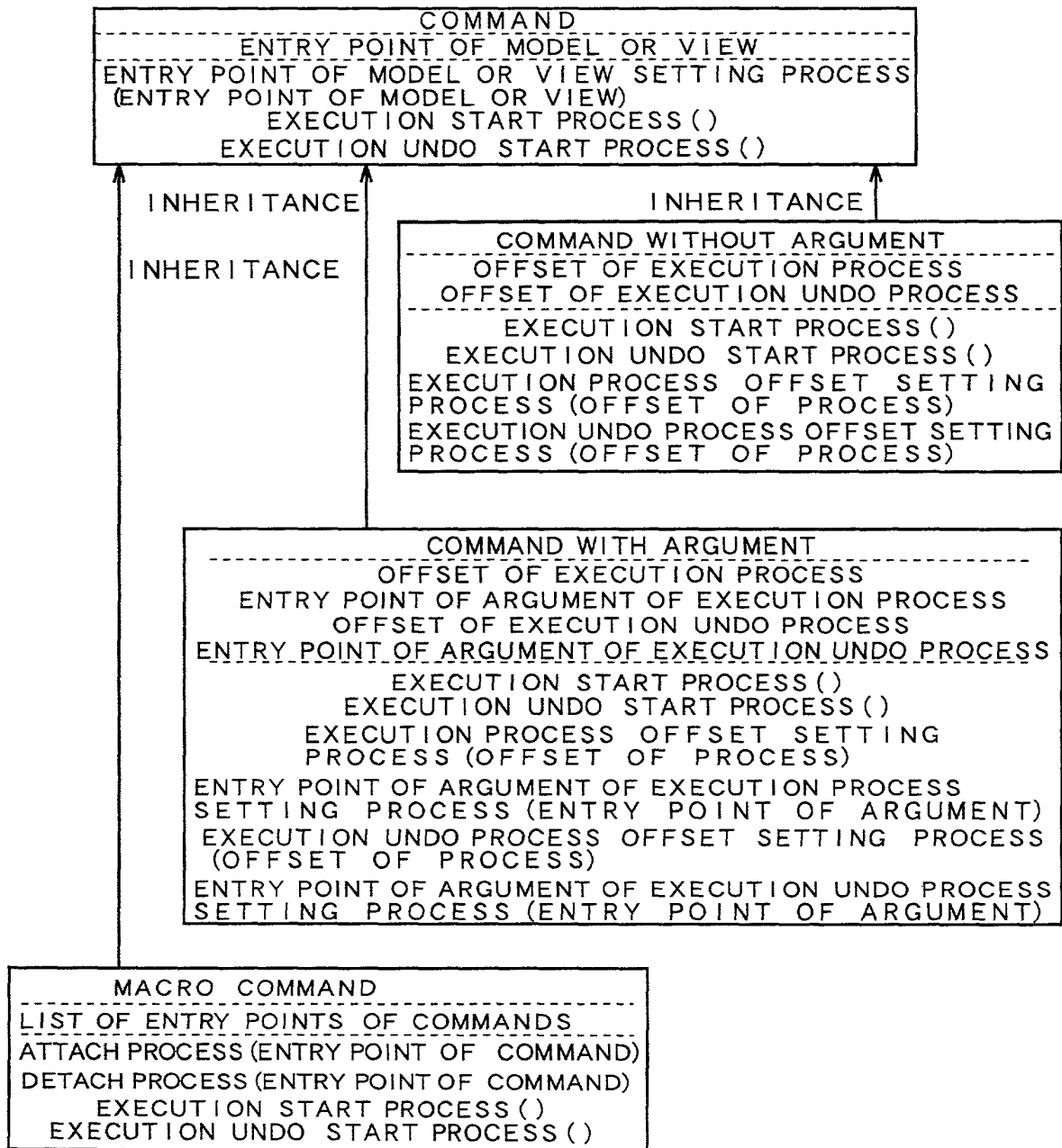


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FIG. 23





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FIG. 25





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FIG. 26

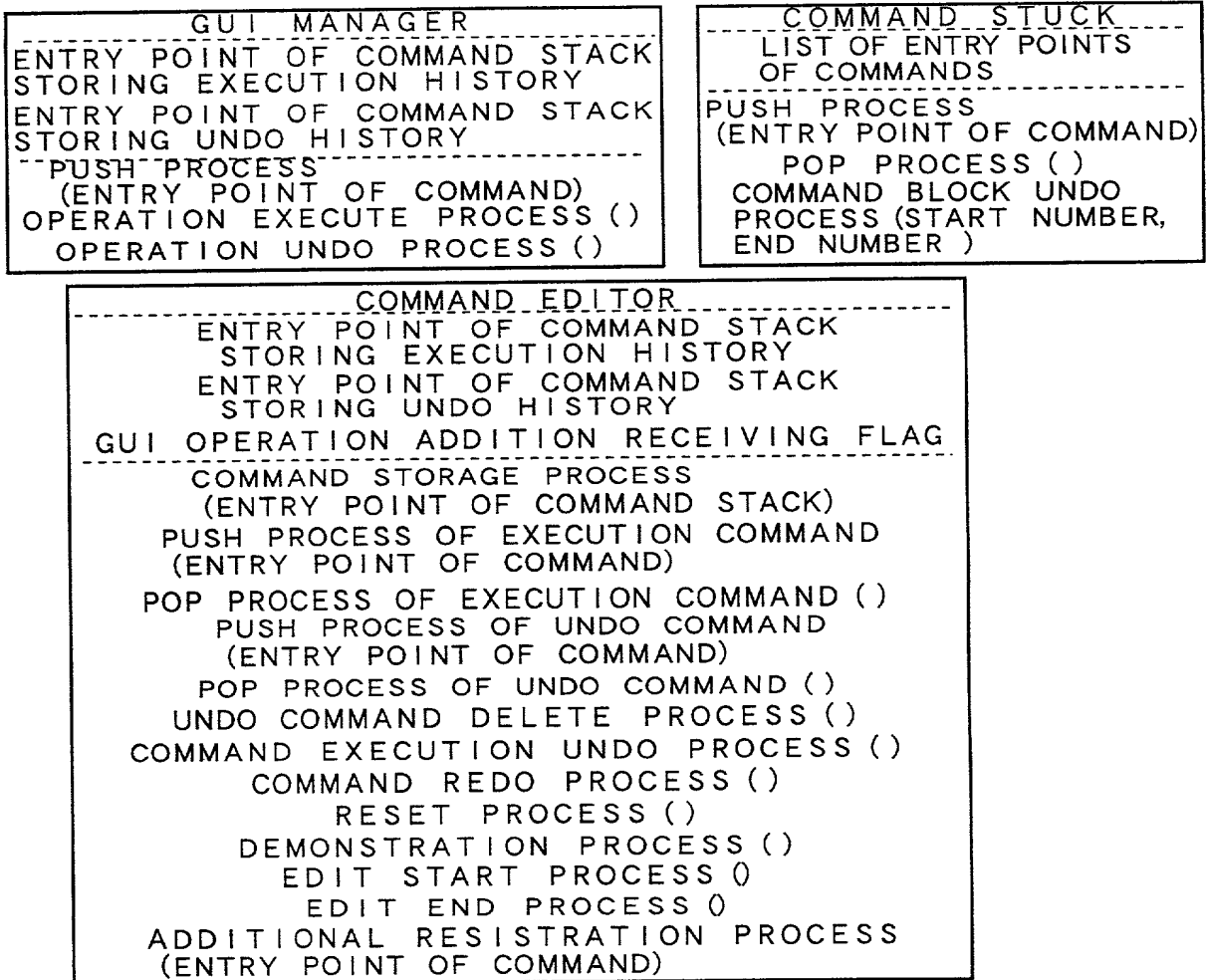
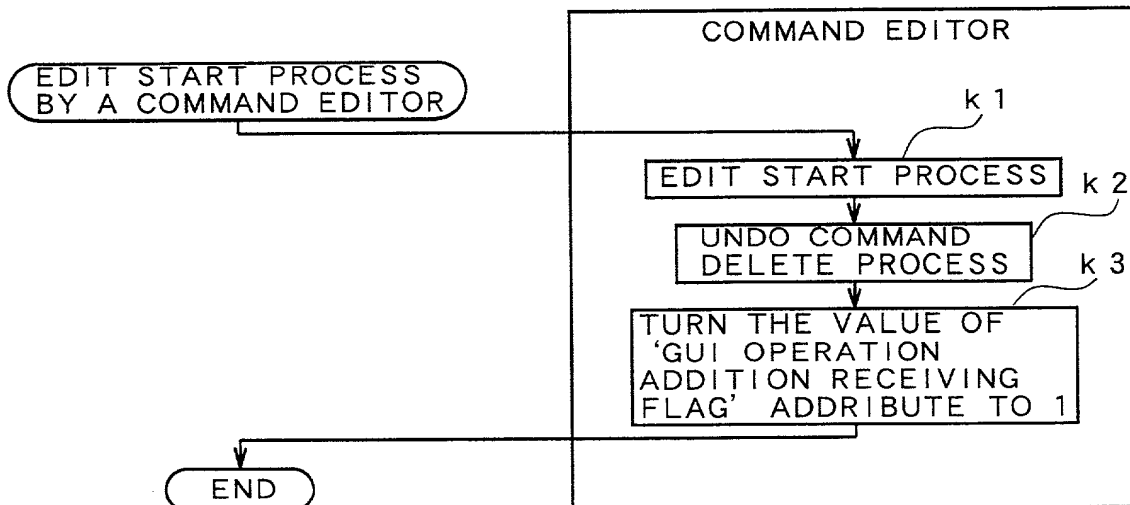


FIG. 27





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FIG. 29

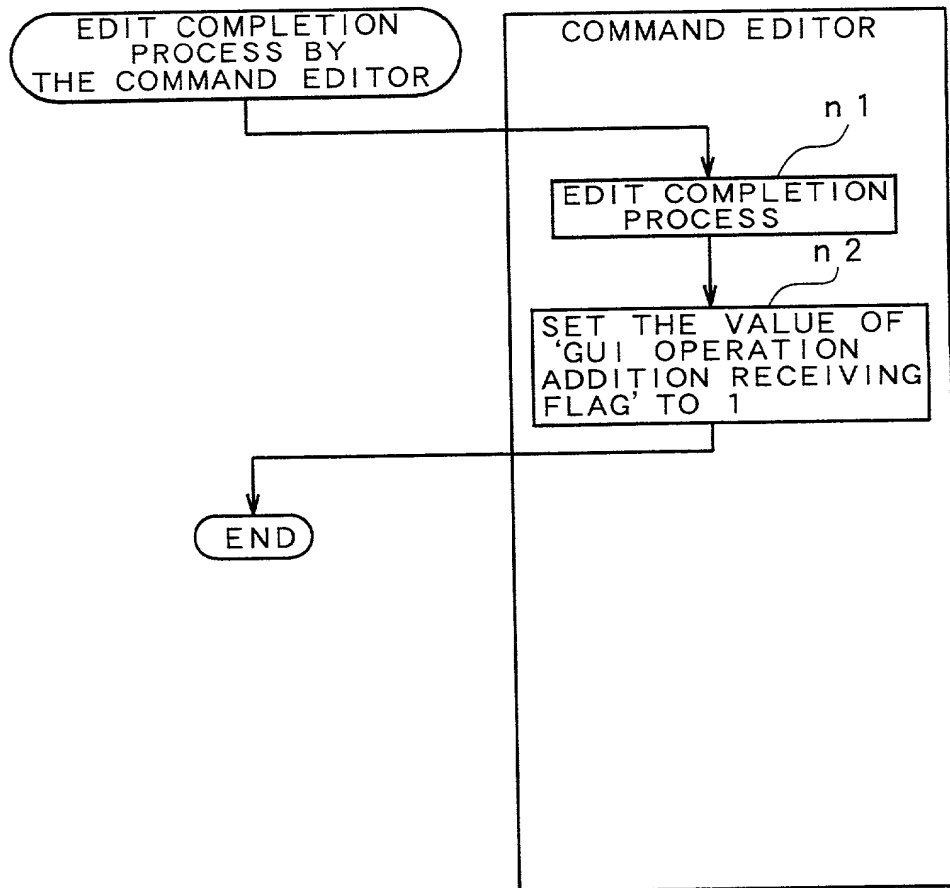


FIG. 30

